TABLE OF CONTENTS

INTRODUCTION 1

TO THE OWNER 2

SAFETY 3-15
- Safety Rules 3
- Before Starting 3-5
- Operation 5-12
- Service 12-15

DECALS 16-19

SERIAL NUMBERS 20

DIESEL ENGINE SPECIFICATIONS . . . 21

GENERAL SPECIFICATIONS 21-24

APPROXIMATE TRACTOR SPEEDS . . . 25

APPROXIMATE OVERALL MEASUREMENTS 26

APPROXIMATE TRANSPORT WEIGHT . . . 26

OPERATOR'S CAB 27

TIRE AND WHEEL EQUIPMENT 27

WHEEL TREAD POSITIONS 28-32

DUAL WHEELS 33-34

FUEL SPECIFICATIONS 35,36

LUBRICATION 37-50
- Engine Hourmeter 37
- Rear Steering Valve Filter 38
- Fuel, Fluids and Lubricants Chart 39
- Lubrication Chart 40
- Engine Oil Change 41
- Engine Oil Filters 42,43
- Diesel Engine 44
- Transmission Oil Level Check & Change 45
- Hydraulic Oil Filters 46,47
- Planetary Oil Level Check & Change . . . 48
- Differential Oil Level Check & Change . . 49
- Tractor Brakes 50

ALTERNATOR CHARGING SYSTEM . . 51

OPERATING INSTRUCTIONS 52-117
- Run-In Procedure 52
- Before Starting the Engine 53
- Towing 54
- Operating Instruments 55-58
- Operating Controls 59-81
  - Operator's Console 59-70
  - Hand Brake Control 71
  - Steering Column Tilt 72
  - Moving the Telescopic Steering Column 72
  - Fuel Tank Water Traps 136
  - Cab Headliner Controls 73-74
  - Cab Air Flow Control 75
  - Cab Air Flow Arrangements 76,77
  - Air Conditioner Operation 78
  - Cab Window Lever 78
  - Cab Door Lock 79
  - Rear View Mirrors 79
  - Operator's Seat 116-168
  - Seat Belts 168-170
  - Amber Warning Lamps, Direction Turn Signals & SMV 80,81
- Starting Procedure 82,83
- Stopping The Engine 84
- Cold Temperature Operation 85
- Preparing Tractor For Operating in Cold Temperatures 86
- Power Shift Transmission 87,88
- Power Takeoff 89-91
- Drawbar 92
- Three Point Hitch System 93
- Hitch System Adjustments 94-96

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INTRODUCTION

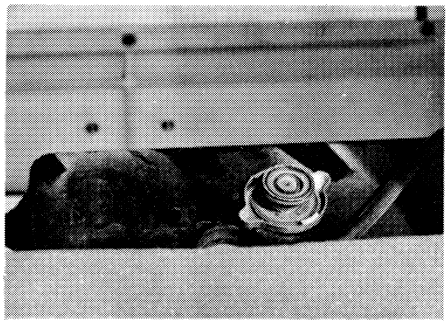


RIGHT AND LEFT SIDES OF MACHINE

"Right-Hand" and "Left-Hand", when used in this manual, indicate the right and left sides of the machine as viewed from the operator's seat.

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⚠ WARNING

HOT COOLANT CAN SPRAY OUT IF CAP IS REMOVED SUDDENLY

REMOVE CAP BY TURNING TO FIRST NOTCH. WAIT UNTIL PRESSURE IS RELEASED, THEN CONTINUE REMOVAL

SCALDING CAN RESULT FROM FAST CAP REMOVAL

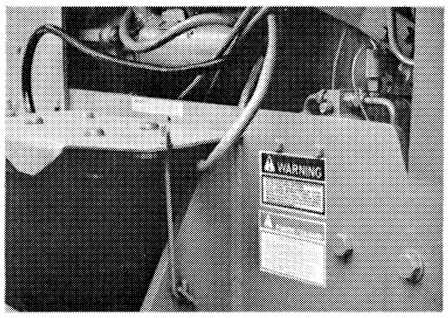
⚠ WARNING

ENGINE CAN START WITH TRANSMISSION IN GEAR WHEN NEUTRAL SAFETY SWITCH IS BY PASSED

1 DO NOT CONNECT ACROSS TERMINALS ON STARTER

2 ATTACH BOOSTER BATTERIES ACCORDING TO SAFE METHOD IN OPERATORS MANUAL THEN USE RECOM MENDED STARTING PROCEDURE FROM OPERATORS SEAT

MACHINE RUN AWAY CAN CAUSE INJURY OR DEATH TO OPERATOR AND BYSTANDERS



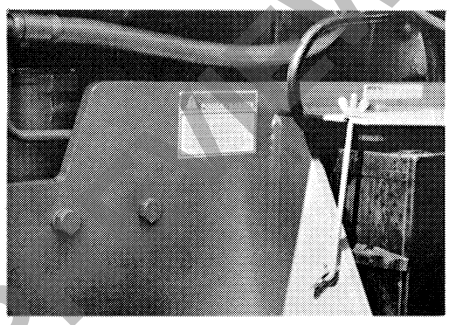
IMPORTANT: Negative Ground. When using a battery charger or booster batteries, always connect terminals positive to positive and negative to negative.

⚠ POISON/DANGER

BATTERY ACID CAUSES SEVERE BURNS

BATTERIES PRODUCE EXPLOSIVE GASES

KEEP OUT OF REACH OF CHILDREN



⚠ WARNING

BATTERY EXPLOSION AND OR DAMAGE TO ELECTRICAL COMPONENTS CAN RESULT FROM IMPROPER CONNECTION OF BOOSTER BATTERIES OR CHARGER

CONNECT POSITIVE TO POSITIVE AND NEGATIVE TO NEGATIVE

EXTERNALLY BATTERY ACID CAN CAUSE BURNS AND BLIND NESS AND TAKEN INTERNALLY IS POISON

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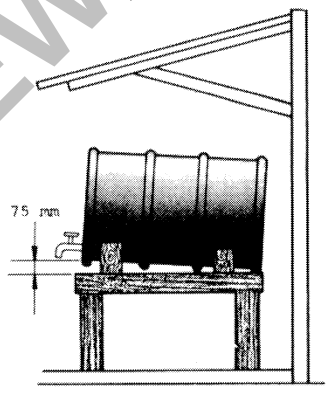
FUEL SPECIFICATIONS
DIESEL

Characteristics	Requirements	Test Method
Solid impurities	None	Visual Inspection
Water content	Max. 0.05 % by volume	ASTM D 95
Sediment	Max. 0.01 % by weigth	ASTM D 473
Density at +20°C	Max. 0.82- 0.86 g/dm^3	ASTM D 1298
Cetane number	Min. 45	ASTM D 613
Flash point	Min. +40°C	SIS 021811 ASTM D 93
Viscosity at +20°C	2.0-6.0 CST	ASTM 445
Pour point	Hot weather max. -10°C Cold weather min. -25°C	ASTM D 97
Destillation (90 % Point)	Max. + 340°C	ASTM D 86
Carbon content according to Ramsbottom on 10 % of destillation residue	Max. 0.20 % by weight	ASTM D 524
Ash	Max. 0.01 % by weight	ASTM D 482
Sulphur	Max. 0.70 % by weight	ASTM D 129
Corrosion	Max. 1 in corrosion scale	ASTM D 130 (3 hrs. +100°C)

FUEL STORAGE

Storing fuel for a long period of time causes accumulation of sediment, dirt, scale, water and other foreign material in the fuel. Many Engine difficulties can be traced to dirty fuel and long storage periods.

To keep diesel fuel as clean as possible, when stored in a barrel, follow instructions below:



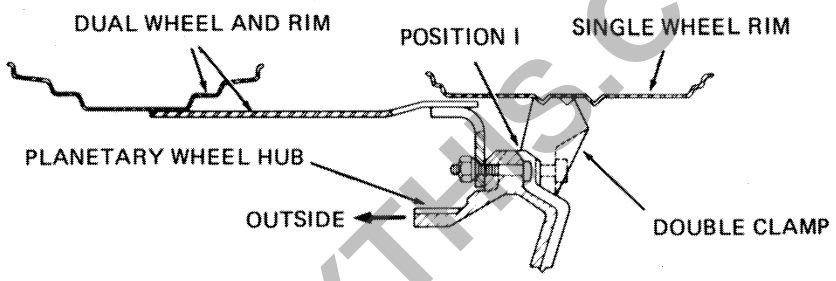
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DUAL WHEELS

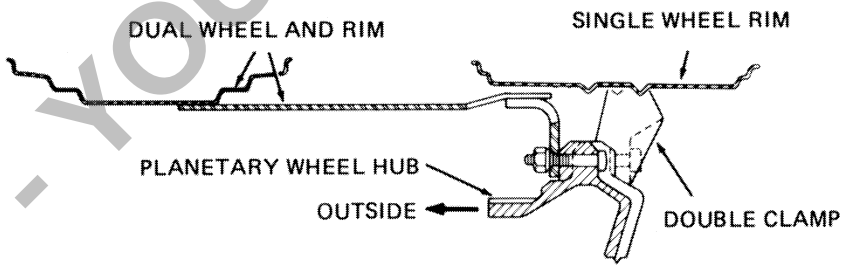
18.4 x 34 Tires

INSIDE WHEEL POSITIONS - 74" (1880 mm) AND 78" (1981 mm)



20.8 x 34 Tires

INSIDE WHEEL POSITIONS (R1 TREAD) – 78" (1981 mm)
INSIDE WHEEL POSITIONS (R2 TREAD) – 78" (1981 mm)



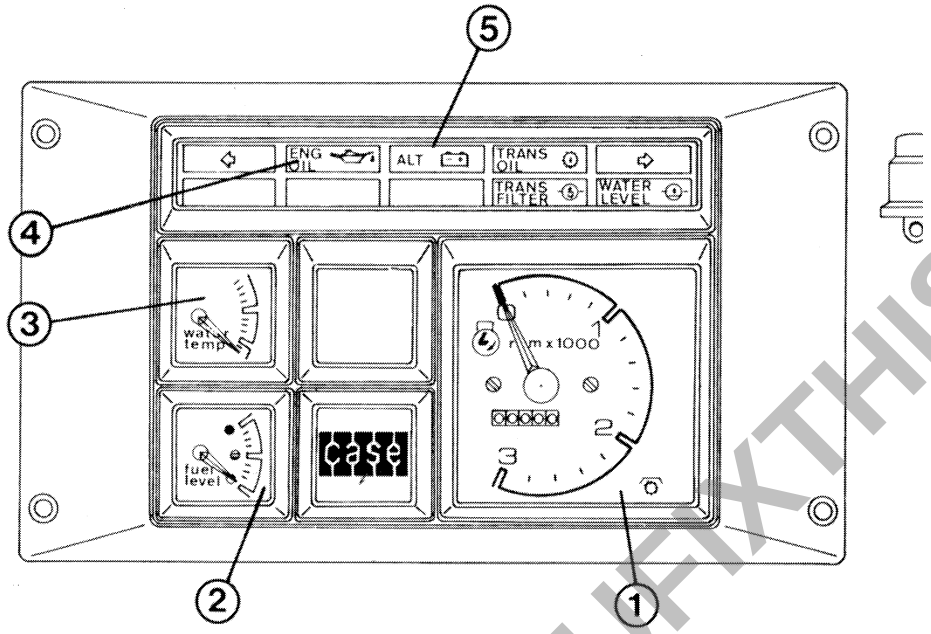
IMPORTANT: *With 20.8 x 34 R2 Tires, a longer front steering stop bolt spacer must be installed.*

These Dual Wheels are installed in a stationary position on the planetary wheel hub and have a standard setting of 133 inches (3 378 mm) for 18.4 x 34 tires and 139 inches (3 531 mm) for 20.8 x 34 tires. The inside wheel can be in position as shown then, when the outside wheel is installed, the correct clearance between tires will be kept.

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OPERATING INSTRUMENTS



1. TACHOMETER AND HOURMETER – The tachometer shows the engine speed in revolutions per minute (RPM). The hourmeter shows the hours and tenths of hours that the engine has run. The hourmeter does not show clock hours. The hourmeter shows the hours that the engine runs at an average RPM. The normal operating range of the engine must be in the green area for maximum engine life. The engine must not operate in the red area. The correct operating speed for the power takeoff is indicated by a symbol at 2200 RPM.

NOTE: *It is normal for the engine to operate for a moment in the amber area when you move the transmission controls to a slower gear while pulling a light load.*

2. FUEL GAUGE – The pointer can be in any position when the key switch is turned to OFF. To get a fuel level indication, the key switch must be turned to IGNITION position. The gauge shows how much fuel is in the tanks. If the pointer is in the red area, the fuel tanks are empty. Fuel level is shown by three balls.
   1/8 black ball – fuel is needed.
   1/2 black ball – fuel tanks are 1/2 filled with fuel.
   All black ball – fuel tanks are filled with fuel.

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OPERATING CONTROLS

Air Conditioner Operation

To operate the air conditioner, the blower must be on. The blower speed and temperature control must be adjusted together to get the best cooling for the ambient temperature. Under normal operating conditions, with the cab sealed correctly, and the windows and door closed, temperatures in the cab of 10°F to 25°F (6°C to 15°C) less than the ambient temperature will occur. When operating the air conditioner system, the humidity is decreased.

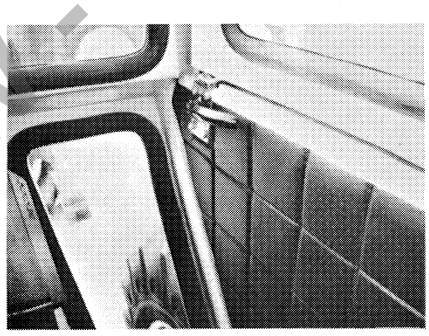
NOTE: *The air conditioner system has two safety components for protection of the system from low refrigerant level and high restrictions. If, during tractor operation, the air conditioner stops working, see Pages 178 and 179.*

IMPORTANT: *The cab air filter does not remove chemicals or fumes. When you use agricultural chemicals, follow the instructions given with the implement and with the chemical.*

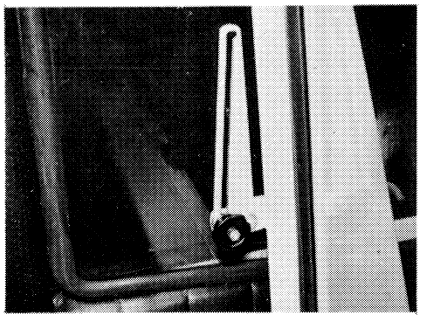
Cab Window Lever

The rear window and the RH side window can be opened. To open the rear window, turn the lock knob counterclockwise and push the lever out to open the window. Then turn the lock knob clockwise to keep the window in the selected position.

To open the RH side window, push the handle down until loose, then push the window out to full open position until it engages the cab outside latch.



Side Window



Rear Window

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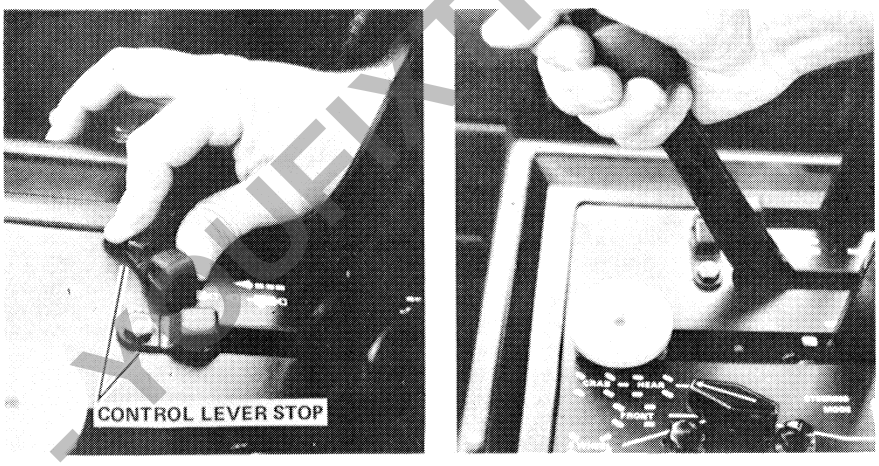
REMOTE HYDRAULIC CONTROL

Operating the Remote Hydraulic Circuits

Connect the implement hoses to the remote couplings so that the implement lowers when the control lever is pushed forward and lifts when the lever is pulled to the rear.

NOTE: *If there is too much restriction in the implement cylinders or other attachments, the restriction can cause a back pressure in the remote valve which will cause the remote lever on the console to return to neutral before the cylinder reaches full stroke. If this condition occurs, use the flow control to decrease the amount of fluid going to the implement. It is normal for the control lever to return to neutral when the cylinders reach full stroke.*

FLOAT OPERATION



To operate the remote hydraulic control in a float condition, turn the control lever stop out of the lever slot. Push the control lever completely forward.

NOTE: *Single action cylinders can be operated in a float or no float operation at the same time that the hitch is operated.*

HYDRAULIC MOTORS

When operating hydraulic motors with the remote system, put the remote control lever in the forward position to run the motor and in the float position to stop the motor. Do not put the control lever in neutral position when the motor is in operation because damage to the motor and hoses can occur. Change hoses in the remote couplings to change the direction of turn of the motor.

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2. The battery is good, if the specific gravity of the cells is between 1.200 and 1.260, or the difference in specific gravity of the high and low cells is less than 30 points. Charge the battery before you use it.

3. Apply a full charge on the battery, if the specific gravity of the cells is between 1.200 and 1.260 points or the difference in specific gravity of the high and low cells is 30 points or more. Check specific gravity again. If the difference in specific gravity is 30 points or more, after you applied a new charge on the battery, this indicates that the battery is bad. In this case, replace it.

Cold Weather Precautions

As air temperatures drop, a storage battery's output capacity lowers. A battery actually becomes "numb" from the cold and will not turn an engine over as fast or for as long a period as it will during warm temperatures.

Since starting a Diesel engine is very dependent upon turning the engine over fast enough to cause self-ignition of the Diesel fuel, the importance of having fully charged batteries for cold weather starting cannot be over-emphasized.

Vent Plugs

Always keep the vent plugs in place and tight. Be sure the vent holes are free of dirt to prevent gas pressure in cells from breaking the sealing or the container.

Cable Terminals and Battery Posts

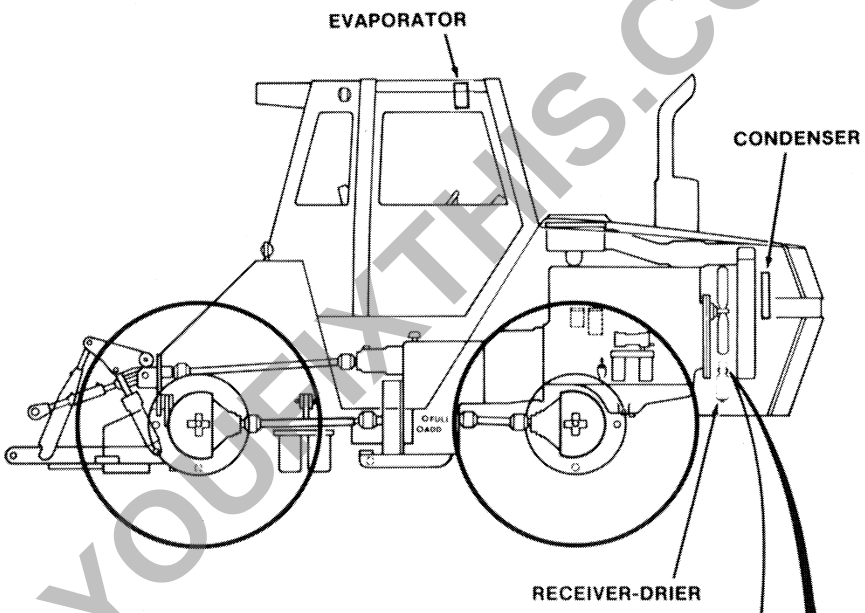
The battery terminals must be kept clean and tight at all times. A good method of cleaning terminals is to remove all excess corrosion with a wire brush, then wash with a weak baking soda solution or ammonia. After cleaning, a thin coating of vaseline or light cup grease will retard further corrosion. Be sure ground connection is clean and tight.

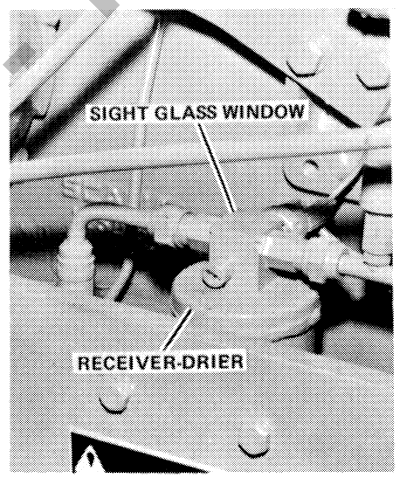
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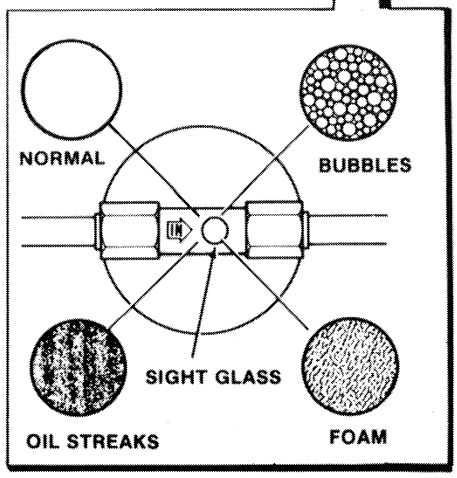
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Refrigerant Check

Before the start of the warm ambient temperatures and if there is a loss of cooling, check the refrigerant level in the sight glass in the top of the receiver-drier.







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OPERATING INSTRUCTIONS
Hitch Operation 97,98
Hitch Control Lever 97
Hydraulic Float Control 98
Anti-Sway Chain 98

Hitch Coupler - Category III 99
Remote Hydraulic Control 100-105
Remote Control Levers 100,101
Variable Flow Control 102,103
Operating the Remote System 104
Hydraulic Hose Couplers 105
Hydraulic Hose Coupling 105
Remote Cylinder 106
Wheel Rim Adjustment & Mounting . . . 107
Wheel Spacing and
Clamp Adjustment 108
Dual Wheel Mounting 109
Tire Mounting 110
Loads Matched to Tractor 110,111
Tractor Ballast 112
Measuring Slip 112
Tractor and Equipment Weight 113
Front End Weights 114
Wheel Weights 115
Tire Liquid Weight 116
Hood and Side Panels 117

PREVENTIVE MAINTENANCE . . . 118-180
Cooling System 119
Pressure Cooling System 119
Coolant Solutions 120
Engine Cooling System Treatment . . . 123
Radiator Cleaning 122
Cooling System Service 122
Thermostat Check 123
Thermostat Replacement 124-126
Fan Belt Adjustment 127
Fan Belt Replacement 128,129

Fuel System 130-136
Service Intervals 130
Fuel Filter Replacement 131,132
Primary Fuel Filter 133,134
Air Removal 134,135
Fuel Tank Water Traps 136

Air Induction System 137-146
Air Filter Service Interval 138
Final Air Filter Service 139-142
Aspirated Strata Tube Service . . . 143-145
Tubes and Hoses 146
Restriction Indicator 138

Neutral Start Switch Adjustment . . . 147,148

Parking Brake Adjustment 149

Three Point Hitch Adjustments . . . 150,151

Electrical System 152-156
Headlights 152
Taillights 152
Floodlights 153
Flashing Amber Warning Lights . . 153,154
Instrument Cluster Lights 154
Lights Fuse Holder 155
Headlight Adjustment 156
Wiring Diagram 181

Storage Battery 157-163
Rules for Battery Care 157-162
Removal & Installation of Batteries . . . 162
Auxiliary Battery Connections 163

Roll Over Protective Structure
(ROPS) 164-165
Tractor Roll Over 164
Safety Rules 164
Maintenance and Inspection 165

Operator's Cab 171-180
Preventive Maintenance 171,172
Air Filter Removal 173
Air Filter Service 173,174
Seat Belt Inspection
and Maintenance 170
Operator's Seat 166-168
Compressor Belt Adjustment 175
Compressor Belt Replacement . . . 176,177
Compressor Belt Alignment 177
Refrigerant Check 178,179
Dome Light 180

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PTO OPERATING SAFETY

For the safe operation of the power takeoff, check these items:

1. The drawbar must be held in the center location on the support bar so that the drawbar can not move horizontally. Remove the three point hitch link.

2. The power takeoff driven machine must be connected to the tractor drawbar with a steel pin. The pin must be as large as possible and held in position with a cotter pin or lock pin. The pin must not extend to where the pin comes in contact with the PTO.

3. When connecting the power takeoff assembly to the tractor and to the driven machine, check the shaft for correct length and for free telescopic movement. The correct length is important to prevent the shaft assembly from hitting bottom or separate in any tractor or driven machine position.

IMPORTANT: *So that the sliding part of the implement drive shaft does not bottom out or become disengaged, the horizontal distance from the end of the tractor PTO shaft to the drawbar hitch pin hole must be kept at 15 to 17 inches (381 to 422 mm). If PTO adapters or other modifications are installed, the drawbar length must be changed to keep the specified dimensions.*

WARNING: *Never attempt to connect or disconnect the shaft of the PTO driven machine to the tractor unless the PTO lever is in the disengaged position and the engine is shut off.*

WARNING: *Stop engine before working on PTO driven machine or PTO shaft, or performing any maintenance.*

WARNING: *On a mobile power take-off application, always disengage the PTO before dismounting from the tractor.*

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